

Section / Row Control for Planters



Corn

- SAVINGS: 4.3%
- YIELD: 17% less
- HARVEST LOSS: 26 times higher

Automatic Section Control Technology For Row Crop Planters

**D. Kent Shannon, David E. Clay, Newell
R. Kitchen**



Automatic Section Control Technology For Row Crop Planters:

Precision Agriculture Technology for Crop Farming Qin Zhang, 2015-10-15 This book provides a review of precision agriculture technology development followed by a presentation of the state of the art and future requirements of precision agriculture technology It presents different styles of precision agriculture technologies suitable for large scale mechanized farming highly automated community based mechanized production and fully mechanized farming practices commonly seen in emerging economic regions The book emphasizes the introduction of core technical features of sensing data processing and interpretation technologies crop modeling and production control theory intelligent machinery and field robots for precision agriculture production

Control System Response for Seed Placement Accuracy on Row Crop Planters

Sylvester Alfredo Badua, 2020 Planting is one of the most critical field operations that can highly influence early season vigor final plant density and ultimately potential crop yield It is the opportunity to place seeds at a uniform depth and spacing providing them the ideal environment for proper growth and development However inherent field spatial variability could influence seed placement and requires proper implementation of planter settings to prevent shallow seeding depth sidewall compaction and uneven spacing The overall goal of this research is to evaluate the response of the planter and crop to downforce control system implementation across a wide range of machine and field operating conditions Planting operations were performed in corn production fields using a Horsch row crop planter with 12 row units equipped with a hydraulic downforce system capable of implementing fixed and active downforce settings A custom made data acquisition system was developed to record sensor data at 10 Hz sampling frequency From this study the following conclusions were drawn First soil texture and soil compaction due to tractor tires influenced real time gauge wheel load GWL Implementing a fixed downforce setting with target GWL set at 35 kg showed that 25% of the total planting time GWL was less than 0 suggesting areas planted with uncertain seeding depth due to potential loss of ground contact of the gauge wheels Likewise fewer row units per section could provide lower variability in GWL indicating the need for an automatic section control to maintain target GWL within an acceptable range for all row units Second implementing an active downforce setting showed no significant difference between downforce A 63 kg and downforce B 100 kg on plant spacing although downforce setting B resulted to higher plant spacing accuracy Higher variability in spacing was observed when ground speed is over 12 kph To achieve desired seeding depth downforce greater than 100 kg is needed when ground speed is over 7.2 kph on no till field and when ground speed is over 12 kph on strip tilled field Third response of row units segregated in sections revealed that row unit acceleration on wing track and non track sections increases with speed Strip tilled soil exhibited lower row unit acceleration by 18% compared to no till soil Finally a proof of concept sensing and measurement SAM system was developed to calculate seed spacing depth and geo location of corn This system could provide real time feedback on seed spacing and depth allowing appropriate downforce control system management for more consistent seed placement during planting In summary

advances in planter technology paved the way for the addition of more row units across on the planter to increase planting productivity With increasing width of planter toolbar each row unit may need different downforce control to varying field and machine operating conditions Appropriate downforce control management should be implemented to compensate for increased dynamics of planter row units across a highly variable field conditions to achieve the desired seed placement accuracy

Precision Conservation Jorge A. Delgado, Gretchen F. Sassenrath, Tom Mueller, 2020-01-22 Precision conservation is a reality and we are moving towards improved effectiveness of conservation practices by accounting for temporal and spatial variability within and off field This is the first book to cover the application of the principles of precision conservation to target conservation practices across fields and watersheds It has clearly been established that the 21st century will present enormous challenges from increased yield demands to climate change Without improved conservation practices it will not be possible to ensure food security and conservation effectiveness Readers will appreciate the application of the precision conservation concept to increase conservation effectiveness in a variety of contexts with a focus on recent advances in technology methods and improved results IN PRESS This book is being published according to the Just Published model with more chapters to be published online as they are completed [Precision agriculture for sustainability](#) Dr John Stafford, 2018-11-06 Comprehensive review of key technologies in precision agriculture from proximal and remote sensing to decision support systems and variable rate technologies Surveys key applications of precision agriculture from controlled traffic farming to site specific nutrient and water management Includes discussion of the economics of precision agriculture

[Digital Agriculture](#) Daniel Marçal de Queiroz, Domingos Sárvio M. Valente, Francisco de Assis de Carvalho Pinto, Aluizio Borém, John K. Schueller, 2022-11-07 This textbook addresses the most recent advances and main digital technologies used in farming The reader will be able to understand the main concepts and techniques currently used to efficiently manage agricultural production systems The book covers topics in a general and intuitive way with examples and good illustrations

[Precision Agriculture Basics](#) D. Kent Shannon, David E. Clay, Newell R. Kitchen, 2020-01-22 With the growing popularity and availability of precision equipment farmers and producers have access to more data than ever before With proper implementation precision agriculture management can improve profitability and sustainability of production Precision Agriculture Basics is geared at students crop consultants farmers extension workers and practitioners that are interested in practical applications of site specific agricultural management Using a multidisciplinary approach readers are taught to make data driven on farm decisions using the most current knowledge and tools in crop science agricultural engineering and geostatistics Precision Agriculture Basics also features a stunning video glossary including interviews with agronomists on the job and in the field

Achieving sustainable cultivation of soybeans Volume 1 Prof. Henry T. Nguyen, 2018-05-31 Reviews latest research on crop physiology and genetic diversity Detailed coverage of key advances in breeding and their application to produce more resilient drought salt and cold tolerant varieties of soybean Summarises good agricultural

practices to optimise crop cultivation and make it more sustainable **Farm Mechanization for Production** Dharendra Khare, S.B. Nahatkar, A.K. Shrivastava, A.K. Jha, 2018-08-01 The dynamics of farm mechanization in pulses is a challenging issue to address This text emphasizes the necessary keys in building and operating farm mechanization in pulses to complete the task by research sensitization and policy decision The authors believe that the book will help in implementation of farm mechanization in pulses which may be achieved with sensitization of farmers for adoption of recommendations scientists to work on wide spectrum of researchable issues and policy makers to develop farmers friendly strong policy The essence of the book will help in doubling the farmers income reducing import of pulses and vanishing mal nutrition from the country

Wallace's Farmer, 2012 Union Agriculturist and Western Prairie Farmer, 2008 Farm Journal, 2008 **Ag Professional**, 2006 *Development of a Test Stand for the Evaluation of Row Crop Planter Automatic Downforce Systems and the Evaluation of a Row Crop Planter Electronic Drive Singulation Seed Meter* Ryan Scott Strasser, 2017 In recent years the technology employed on precision row crop planters has rapidly advanced These new technologies include automatic downforce control systems and electronic drive singulation seed meters These new technologies offer producers higher productivity through high speed planting and increased yield potentials through accurate seed spacing and placement To begin to understand the benefits and performance of these new technologies research must be conducted that specifically targets these new systems With this research producers would be able to better select equipment for their operation and have a deeper understanding of proper system operation and settings A test stand of a scissor lift type design was developed to evaluate row crop planter automatic downforce systems Evaluation of a planter's automatic downforce system is important for understanding the planter's capability of maintaining target seeding depth throughout varying field conditions The test stand consists of a horizontal platform that can raise and lower to simulate terrain changes as well as a mechanism to load the planter row unit's opening discs to simulate varying soil texture The vertical height of the test stand and the disc load can be varied in real time based on utilizing real world scenarios under simulated conditions to evaluate downforce system response The stand incorporated several sensors to obtain the overall applied downforce applied disc load applied gauge wheel load and hydraulic pressure The test stand's capabilities were evaluated and found to be satisfactory for planter downforce system testing The test stand was then used to evaluate a commercial automatic downforce system when operating under simulated field conditions Field data was used to create simulations representing soil type changes planter operating speed changes and extreme conditions such as a hard packed clay or rocky soil type It was found that the evaluated downforce system was able to maintain target gauge wheel load to within 223 N for at least 94% of the time during all simulations This would suggest that the planter would be able to maintain target seeding depth for at least 94% of field operations Another key aspect for precision agricultural planters is to achieve accurate seed spacing at varying speeds An electronic drive singulation seed metering system was evaluated to gather the meter's effectiveness for high speed planting

during straight and contour farming mode using simulated field conditions The simulated conditions were used to gather the meter s response when encountering high planting speeds accelerations decelerations point rows and contours These meters were found to be highly accurate with less than 1 5% error in target seed meter speed during all simulated conditions The meters were also found to have a response time that was always 0 34 seconds or less for all simulated conditions *Thomas' Register of American Manufacturers* ,2003 Wallaces Farmer ,2024-04 International Trade Reporter's U.S. Export Weekly ,1979-10 *Thomas Register of American Manufacturers and Thomas Register Catalog File* ,1997 Vols for 1970 71 includes manufacturers catalogs Citrus and Vegetable Magazine ,1998 **Power Farming** ,1982 *Acres, U.S.A.* ,1990

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